Index of Subjects

Adulteration, milk, differentiation of milk species, 129
Antibiotic, from coagulase-negative staphylococci, 271

Bacteria, rumen, 3,7,11,15-tetramethylhexanoic acid production, 333
Barley straw, voluntary intake, when concentrates given, 1
Butter, from oxidized cream, identification of n-alkan-1-ols, 31

Carotene, chemical change, butterfat, cold storage, 25
Casein, structure, partition between polymer phases, 277
Cheddar cheese, manufacture (review), 343
Pediococcus cerevisiae content, 325
rancid flavour, *Clostridium tyrobutyricum* content, 139
Cheesemaking, Cheddar, aseptic *vs.* non-aseptic process, 139
review, 343
Chloride, content, milk, transfer of chemicals from blood, relationship, 309
Clostridium tyrobutyricum, content, Cheddar cheese, rancid flavour, 139
Coagulation, milk protein, heat, measurement, 67, 83, 93
Cold storage, butterfat, greenish discoloration, 25
Colostrum, fat, fatty acids, analysis, sows, 255
Concentrates, supplement, hay, rate of disappearance of digesta, 13
voluntary intake, roughages, 1
Cream, viscosity, stability, heat treatment, processing, 245

Dairy products, *see also individual products*
methyl ketones, formation and metabolism (review), 225
Diet, high protein, induced ketosis, cows, 291
Diseases, *see also* **Ketosis, Mastitis**
milk-borne (review), 103
Dry butterfat, cold storage, greenish discoloration, 25

Fatty acids, colostral-, milk-fat, sows, analysis, 255
composition, milk, goat, denervated mammary gland, 43
3,7,11,15-tetramethylhexanoic acid production, rumen bacteria, 333
Feeding, sugar-beet pulp, milk yield and composition, 123
Flavour, milk, cows fed sugar-beet pulp, 123
rancid, Cheddar cheese, 139

Goat, milk, yield and fatty acid composition, denervated mammary gland, 43

Hay, supplemented with concentrates, rate of disappearance of digesta, 13
voluntary intake, 1, 13
Heat stability, milk protein, measurement, 67, 83, 93
Heat treatment, cream, processing, viscosity, stability, 245
milk, deposits, measurement, methods, comparison, 317

Ketosis, induced, cows, 291

Lactation, *see also* **Milk secretion**
lactose content, blood, urine, 37
stage, induced ketosis, 291
milk composition, 309
number, milk, cell counts, 193
Lactic acid bacteria, D(–) lactic acid production, estimation, 65
D(–) Lactic acid, estimation, using lactic dehydrogenase, 65
Lactobacillus bulgaricus, Str. thermophilus, symbiosis, yoghurt, 299
Lactose, content, blood, urine, lactating cows, 37
Lactosuria, pregnant cows, 37
Leucocytes, number, milk, determination, Coulter counter, 51
Light, storage, milk, heat stability, 83

Mammary gland, *see also* **Udder**
denervated, goat, milk, yield and fatty acid composition, 43
Mastitis, subclinical, milk, cell counts, 193
Methyl ketones, formation and metabolism (review), 225
Milk, cell counts, throughout lactation, for 7 lactations, 193
cow, buffalo, goat, sheep, serological differentiation, 129
leucocytes, number, determination, Coulter counter, 51
Milk-borne diseases (review), 103
Milk composition, *N*-acetyl-4-aminoantipyrine, urea, thiocyanate, thiosulphate, from blood, 309
bacterial infection, udder, 199
colloidal complex, para-caseinate–phosphate complex, rennet curd, 151
feeding, sugar-beet pulp, 123
milking interval, 161
Milk deposits, on heat treatment, measurement, methods, comparison, 317
Milk fat, content, milk, feeding sugar-beet pulp, 123
goat, denervated mammary gland, 43
dry, *see* **Dry butterfat**
fatty acids, analysis, sows, 255
composition, denervated mammary gland, goat, 43

Milk fat, globule membrane, dispersibility, effects of drying, dilution, freezing, thawing, 217
Milk protein, heat stability, measurement, 67, 83, 93
Milk secretion, *see also* **Lactation**
rate, milking interval, 161
Milk yield, bacterial infection, udder, 199
feeding, sugar-beet pulp, 123
half-udder milking technique, 223
goat, denervated mammary gland, 43
milking interval, 161
Milking, interval, lactose content, blood, urine, 37
milk yield and composition, 161
technique, half-udder, milk yield, 223
Milking machines, milk-flow rate, within single pulsation cycles, 177

Pediococcus cerevisiae, content, Cheddar cheese, 325
Pigs, colostral-, milk-fat, fatty acids, analysis, 255

Rennet curd, para-caseinate–phosphate complex, 151
Roughages, voluntary intake, when concentrates given, 1
Rumen, bacteria, 3,7,11,15-tetramethylhexanoic acid production, 333

Serology, differentiation, milk, cow, buffalo, goat, sheep, 129
Silage, voluntary intake, when concentrates given, 1
Solids-not-fat, content, milk, feeding sugar-beet pulp, 123
Staphylococci, coagulase-negative, udder, antibiotic from, 271
distribution, characters, 261
coagulase-positive, subclinical mastitis, cell counts, milk, 193
Staphylococcus pyogenes, infection, udder, milk yield and composition, 199
Starters, yoghurt, *Str. thermophilus, L. bulgaricus,* symbiosis, 299
Storage, *see also* **Cold storage**
milk, different temperatures, darkness, light, heat stability, 83
Streptococcus cremoris, associated growth of *Pediococcus cerevisiae,* milk, 325
Str. dysgalactiae, infection, udder, milk yield and composition, 199
Str. thermophilus, *L. bulgaricus,* symbiosis, yoghurt, 299
Sugar-beet pulp, supplement, silage and concentrates, milk yield and composition, 123

Temperature, storage, milk, heat stability, 83
Thyroxine, injected, induced ketosis, cows, 291

Udder, blood, milk, transfer of chemicals, 309
staphylococci, coagulase-negative, antibiotic from, 271
distribution, characters, 261
Staph. pyogenes, Str. dysgalactiae, milk yield and composition, 199
Urine, lactose content, lactating cows, 37

Yoghurt, starters, *Str. thermophilus, L. bulgaricus,* symbiosis, 299

Index of Authors

Akam, D. N., 177
Amundson, C. H., 217

Bautista, Emma S., 299
Berridge, N. J., 277
Blackburn, P. S., 193
Burton, H., 317

Campling, R. C., 1, 13
Castle, M. E., 123
Chien, H. C., 217
Clough, P. A., 177

Dahiya, R. S., 299
Davies, D. T., 67, 83, 93
Dodd, F. H., 161, 199
Drysdale, A. D., 123
Duncan, W. R. H., 255

Edwards, S. J., 261, 271

Forss, D. A., 31
Fryer, T. F., 325

Garton, G. A., 255
Garvie, Ellen I., 65
Goudkov, A. V., 139
Griffin, T. K., 161

Hansen, R. P., 333
Hawke, J. C., 225
Hibbitt, K. G., 291
Huskisson, N. S., 43

Jones, G. W., 261, 271

Ling, E. R., 151
Lück, H., 25

McCoy, J. H., 103
Morag, M., 223
Murdoch, J. C., 1

Neave, F. K., 199
Newbould, F. H. S., 51

Phipps, L. W., 51

PINTO, F. C., 129

RICHARDSON, T., 217
ROBERTSON, P. S., 343
ROOK, J. A. F., 37, 161, 199, 309
ROTHWELL, J., 245

SHARPE, M. ELISABETH, 139, 325
SPECK, M. L., 299
STARK, W., 31
SUETT, D. L., 277

THIEL, C. C., 177

WARD, P. F. V., 43
WATSON, J. N., 123
WESTGARTH, D. R., 177
WHEELOCK, J. V., 37, 161, 199, 309
WHITE, J. C. D., 67, 83, 93